

Amendments to the Claims:

The following listing of claims will replace all prior versions, and listings, of claims in the application:

1-12. (Canceled)

13. (New) An optical signal transmission device comprising:

a plurality of optical signal transmission substrates, each of the plurality of optical signal transmission substrates including a plurality of first electrodes and a plurality of optical signal transmission areas where at least one of a light emitting element for sending an optical signal to one of the plurality of optical signal transmission substrates or a light receiving element for receiving an optical signal from one of the plurality of optical signal transmission substrates is located so as to be capable of sending or receiving the optical signal in a direction substantially perpendicular to a surface of the plurality of optical signal transmission substrates; and

an adhesive layer formed between the plurality of optical signal transmission substrates, the adhesive layer including a plurality of second electrodes and an adhesive agent for electrically connecting one of the plurality of optical signal transmission substrates with another of the plurality of optical signal transmission substrates, the plurality of second electrodes being in contact with the plurality of first electrodes;

wherein an optical signal transmission member formed by the plurality of optical signal transmission substrates being laminated in such a manner that at least one of the plurality of optical signal transmission areas of one of the plurality of optical signal transmission substrates overlaps the plurality of optical signal transmission areas of another of the plurality of optical signal substrates, and

wherein the light receiving element is located in at least one of the plurality of optical signal transmission substrates so as to be opposite the light emitting element provided in at least one of the other optical signal transmission substrates.

14. (New) The optical signal transmission device according to claim 13, one of the plurality of optical signal transmission substrates having a transmittable window exhibiting light transmittability at the position where the optical signal to be transmitted between the light emitting element and the light receiving element passes through.

15. (New) The optical signal transmission device according to claim 13, the light emitting element and the light receiving element being located along an optical axis of at least one of the optical signal.

16. (New) The optical signal transmission device according to claim 13, at least one of the plurality of optical signal transmission areas having a transparent material.

17. (New) The optical signal transmission device according to claim 13, clads being provided at boundaries of the plurality of optical signal transmission areas.

18. (New) The optical signal transmission device according to claim 13, the plurality of optical signal transmission areas being divided into lattice sections and the light emitting element or the light receiving element being located in at least one of the lattice sections.